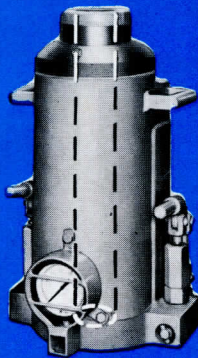
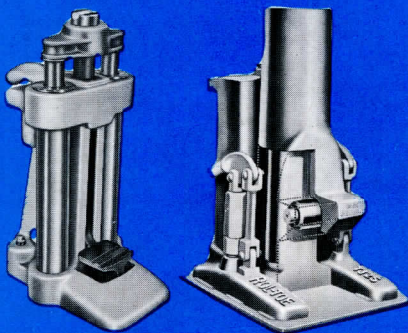




**STANDARD  
HYDRAULIC JACKS  
PAGE 2**



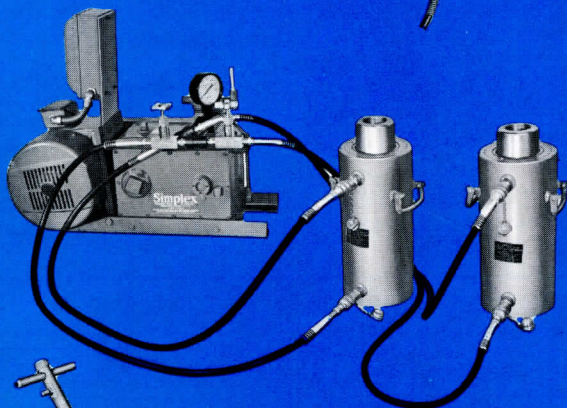
**JENNY CENTER-HOLE  
HYDRAULIC PULLERS  
PAGE 3**



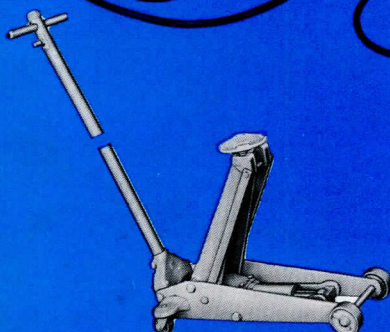
**HYDRA-TOE AND  
ROL-TOE FOOT-LIFT  
HYDRAULIC JACKS  
PAGE 4**



**PUSH-PULL AND  
TWO AND THREE-GRIP  
PULLERS  
PAGE 5**



**RE-MO-TROL  
JACKS AND PULLERS  
PAGES 6 TO 14**



**SERVICE AND  
BUMPER JACKS  
HYDRAULIC & SCREW TYPES  
PAGES 15**

# **SIMPLEX HYDRAULIC JACKS AND PULLERS**

This is the most complete line of industrial hydraulic jacks and pullers.

For information on the complete line of Simplex Mechanical Jacks, request Mechanical Catalog.

**SIMPLEX JACK DIVISION**

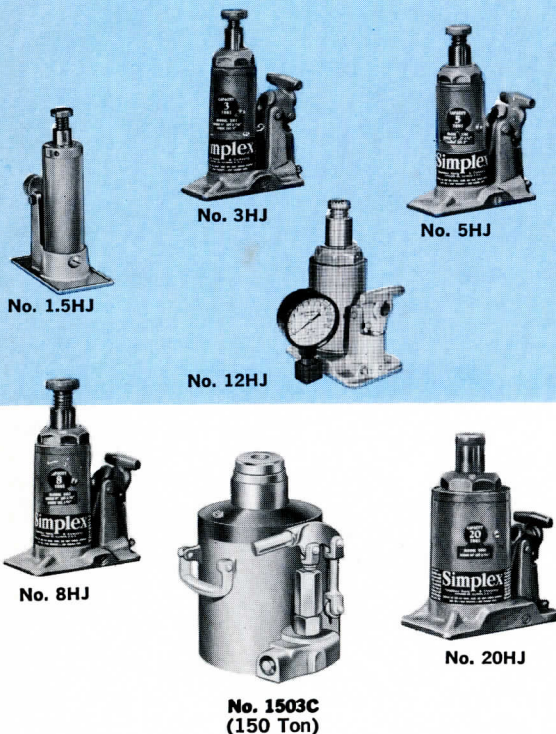
**TEMPLETON, KENLY and COMPANY**  
Broadview, Illinois



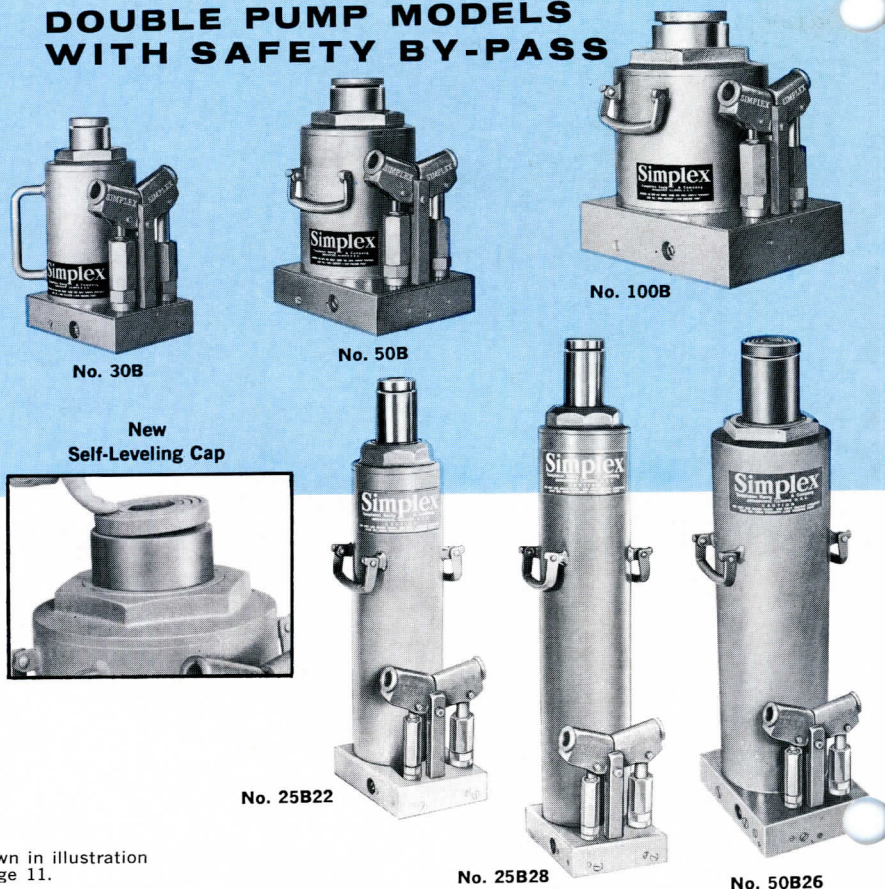
# SIMPLEX STANDARD HYDRAULIC JACKS

13 MODELS / 1½ TO 150 TONS CAPACITY

## SINGLE PUMP MODELS



## DOUBLE PUMP MODELS WITH SAFETY BY-PASS



All models can be equipped with gauge reading in tons as shown in illustration of 12HJ jack. Also used as a scale for weighing loads. See Page 11.

**RECOMMENDED FOR:** Truck and bus fleet operators, construction contractors, equipment manufacturers, oil fields, mines and general industrial maintenance in shops and factories.

These jacks combine hydraulic power for ease of operation with engineered safety and dependability. The result is lifting power suitable for general application as well as specialized jobs.

Smaller models, up to 20 tons capacity, have a single long-stroke pump, positioned for maximum lift with minimum effort. Bases are sturdily constructed of malleable iron. Except for model 1.5HJ, all socket fulcrum and pump piston pins are 3/8" diameter heat-treated steel for long service.

Heavy duty model 1503C, capacity 150 tons, similar in appearance to Simplex Jenny but with solid ram plunger, has single piston and preset overload safety valve. Ram plunger includes self leveling cap to minimize eccentric loading.

Heavy-duty models, 25 tons and over, are equipped with both high and low speed pumps which may be operated singly or in unison. They are particularly suitable for mill and factory work; and for construction, mining, drilling, journal inspection, bridge work, culvert pushing or pipe-bending.

They also feature the new "Self-Leveling Cap" which adjusts through a 10° included angle to transfer off-center loading to the center line of the jack ram, thus eliminating scoring of the inside cylinder.

Bases are high-carbon solid rolled plate. No. 30B has a fixed handle; all others have drop handles for easier carrying. 30B, 50B, 50B26 and 100B have a safety by-pass.

Models 25B22 and 25B28 are similar to No. 30B, but as they have considerably more lift are rated at 25 tons.

### SINGLE PUMP MODELS

| Jack No. | Rated Capacity Tons | Low Height Inches | Hyd. Lift Inches | Exten. Screw Inches | Total Height Inches | Effec. Ram Area Sq. Ins. | *Net Wt. Lb. |
|----------|---------------------|-------------------|------------------|---------------------|---------------------|--------------------------|--------------|
| 1.5HJ    | 1½                  | 7                 | 5¼               | 2                   | 14¼                 | .94                      | 9            |
| 3HJ      | 3                   | 9                 | 6¾               | 2                   | 17½                 | 1.23                     | 15           |
| 5HJ      | 5                   | 9                 | 6¾               | 3                   | 18¾                 | 1.77                     | 18           |
| 8HJ      | 8                   | 9                 | 6¾               | 4¾                  | 19¾                 | 2.41                     | 21½          |
| 12HJ     | 12                  | 9                 | 6¾               | 3                   | 18¾                 | 3.14                     | 29½          |
| 20HJ     | 20                  | 10                | 6¾               | ..                  | 16¾                 | 4.91                     | 32½          |
| 1503C    | 150                 | 11½               | 27¾              | ..                  | 14¾                 | 28.27                    | 86           |

### DOUBLE PUMP MODELS

| Jack No. | Rated Capacity Tons | Low Height Inches | Hyd. Lift Inches | Total Height Inches | Effec. Ram Area Sq. Ins. | *Net Wt. Lb. |
|----------|---------------------|-------------------|------------------|---------------------|--------------------------|--------------|
| 25B22    | 25                  | 22                | 16               | 38                  | 7.07                     | 112          |
| 25B28    | 25                  | 28                | 22               | 50                  | 7.07                     | 132          |
| 30B      | 30                  | 11                | 7                | 18                  | 7.07                     | 72           |
| 50B      | 50                  | 12                | 7                | 19                  | 11.04                    | 118          |
| 50B26    | 50                  | 26                | 20               | 46                  | 11.04                    | 207          |
| 100B     | 100                 | 12                | 6¾               | 18¾                 | 19.63                    | 209          |

\*Includes operating lever of ½" pipe 20" long—weight 1½ lbs., which can be locked in socket for placing and removing jack. Handle for 1.5HJ is 26" long—Two-piece, interlocking.

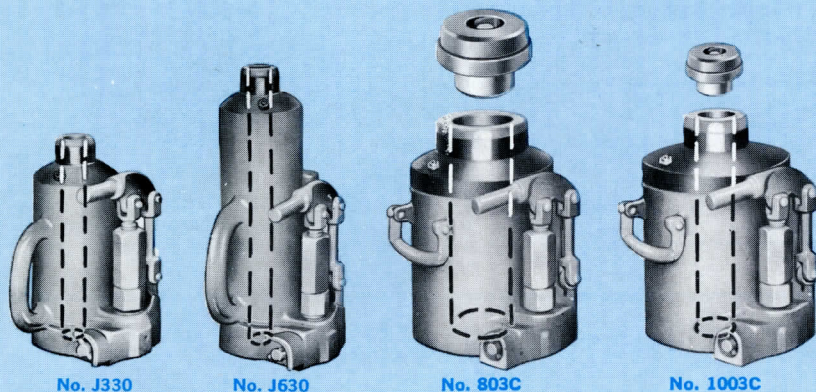
\*Includes solid operating lever 1¾", 20" long.



# SIMPLEX "JENNY" SELF-CONTAINED HYDRAULIC PULLERS

6 MODELS / 30 TO 100 TONS CAPACITY (Special units to 600 tons)

## SINGLE PUMP MODELS



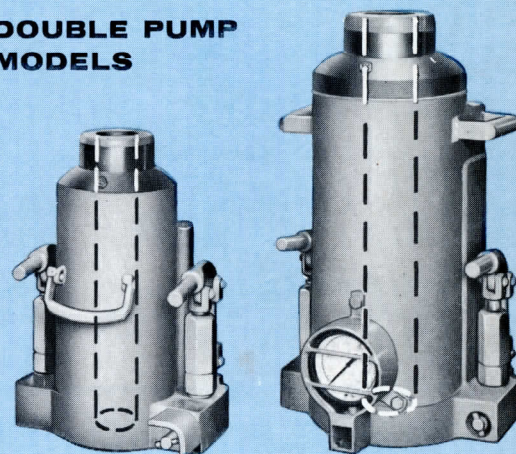
No. J330

No. J630

No. 803C

No. 1003C

## DOUBLE PUMP MODELS



No. J606B

No. 10010A

**RECOMMENDED FOR:** Removing and installing all types of bearings, sleeves, bushings, liners, gears, pulleys, pinions, pins, testing roof bolts, stern tubes (ships) and shafts and in conjunction with welding. Also general maintenance work.

The Simplex "Jenny" is a hydraulically operated center-hole puller. It serves equally well as a heavy duty hydraulic jack or a press. The center-hole eliminates torque in pulling, as is common with screw type pullers, and makes operation 6 times easier. Much lighter in weight than standard hydraulic jacks of equal capacity, Simplex "Jennies" are easy to use and handle; can be operated vertically or horizontally (pump handle must be up). Models J330, J630, 803C and 1003C have single pumps. J606B and 10010A have double pumps; high speed for fast rise and low speed for power. Models 803C and 1003C are equipped with self leveling ram cap to insert into the center-hole to minimize eccentric loading. Also preset overload safety valves. All "Jennies" can be equipped with a gauge reading the load in tons. Typical applications are shown below.

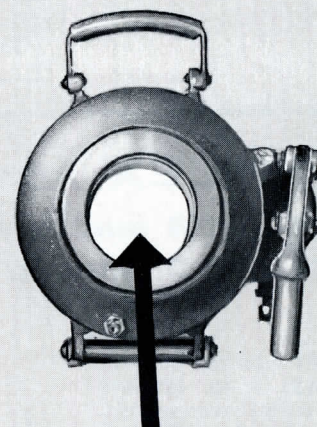
| Jack No. | Rated Capacity Tons | Diameter Cen. Hole Inches | Height Inches | Travel Inches | Outside Diameter Inches | Effec. Ram Area Sq. Ins. | Weight Lb. | Oil Pints |
|----------|---------------------|---------------------------|---------------|---------------|-------------------------|--------------------------|------------|-----------|
| J330     | 30                  | 1 1/8                     | 9 1/8         | 3 1/4         | 4 3/8                   | 6.53                     | 32         | 1 1/4     |
| J630     | 30                  | 1 1/8                     | 13            | 6             | 4 3/8                   | 6.53                     | 46         | 2         |
| J606B    | 60                  | 2 1/8                     | 13 3/4        | 6             | 6 1/2                   | 13.70                    | 106        | 4         |
| 803C*    | 80                  | 3 1/8                     | 10            | 2 7/8         | 7 1/4                   | 16.41                    | 80         | 2         |
| 1003C*   | 100                 | 2 1/8                     | 10            | 2 7/8         | 7 1/4                   | 22.33                    | 76         | 3         |
| 10010A** | 100                 | 2 3/4                     | 20            | 10            | 8                       | 16.50                    | 220        | 10        |

\*Includes self-leveling cap as standard equipment.

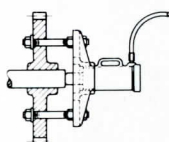
\*\*Includes direct reading pressure gauge as standard equipment.

## The famous Simplex "Center-Hole"—

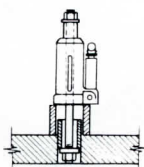
Makes pulling jobs easier and faster. Plunger construction is tubular; a pull rod inserted in the ram plunger and secured over the plunger head is pulled through the ram as the plunger is extended. This method simplifies rigging, eliminates torque and makes operation 6 times easier.



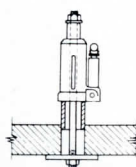
## TYPICAL "JENNY" AND "RE-MO-TROL" APPLICATIONS



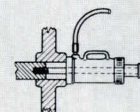
**Pulling a gear**—Pulling bracket threaded onto ram; pull rods secured behind gear face. As plunger extends, it presses against shaft, withdrawing gear.



**Removing sleeve with Jenny**—using supporting chair and center pulling screw. Center pulling screw is inserted through "Center-Hole" and is secured with hex nut at head. Backup washer, held with hex nut, is placed against sleeve. Direct pull through "Center-Hole" permits torque-free pull.



**Pressing sleeve into housing with Jenny**—Center pulling screw is placed through "Center-Hole" and heavy backup washer. Hex nuts are attached to both ends of center screw. As ram plunger extends, sleeve is pressed into housing.



**Pressing gear onto shaft**—Center pulling screw is threaded into shaft, secured over plunger head by backup washer and nut. As plunger extends, gear is pressed onto shaft with perfect trueness.



## SIMPLEX "HYDRA-TOE" TOE LIFT HYDRAULIC JACKS

15 TON CAPACITY



**MODEL S159**—Self Contained Unit with high and low speed hand pumps. Has safety by-pass valve to prevent overload.

Cylinder scoring, inherent in conventional toe lift hydraulic units, is eliminated by use of an alloy steel toe bar suspended from the top of twin hydraulic cylinders and guided in an aluminum alloy housing. Toe Bar and housing are similar in design to Simplex Lever Jacks. Lifts full capacity on toe or cap.

| Jack No.     | Closed Height Inches | Travel Inches | TOE                |              | Effec. Ram Area Sq. In. | Weight Lbs. |
|--------------|----------------------|---------------|--------------------|--------------|-------------------------|-------------|
|              |                      |               | Min. Height Inches | Width Inches |                         |             |
| <b>S159</b>  | 17                   | 9             | 2                  | 3¼           | 4.82                    | 64          |
| <b>RC159</b> | 17¾                  | 9             | 2                  | 3¼           | 4.82                    | 57          |

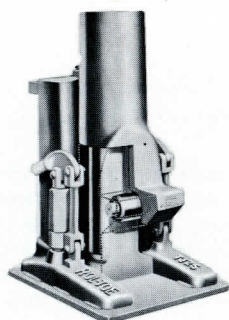


Cylinder scoring eliminated by toe bar sliding in jack housing (patented).

**MODEL RC159**—Remote Control operation. Using proper power pump, Jack (or jacks) can lift 15 tons 9" in 12 seconds.

## SIMPLEX "ROL-TOE" TOE LIFT HYDRAULIC JACKS

10, 25 and 50 Ton Capacities

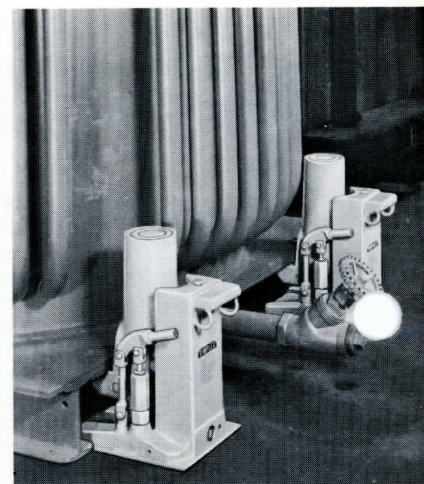


(cutaway view)

Exclusive design accounts for the success of this series of jacks. The roller bearing in the toe transmits eccentric toe loading to the flat milled surface on the housing. This minimizes scoring action which is inherent in conventional toe lift hydraulic jacks. Lifts full capacity on toe or cap.

Double pumps provide both speed and power. A safety by-pass prevents overloading. Ideal for lifting heavy machinery and transformers with minimum jacking clearances. Can also be used horizontally.

| Jack No.    | Rated Capacity Tons | Closed Height Inches | Travel Inches | Toe                       | Effec. Ram Area Sq. Ins. | Base: Forked Design | Wght. Lbs. |
|-------------|---------------------|----------------------|---------------|---------------------------|--------------------------|---------------------|------------|
| <b>TJ10</b> | 10                  | 11¾                  | 6             | Min. Ht. 2½"<br>Width 3"  | 3.98                     | 9½"x8"              | 54         |
| <b>TJ25</b> | 25                  | 14                   | 7             | Min. Ht. 2½"<br>Width 4¾" | 8.29                     | 9"x12"              | 110        |
| <b>TJ50</b> | 50                  | 18                   | 10            | Min. Ht. 3¾"<br>Width 5½" | 14.18                    | 11½"x14¼"           | 230        |



## SIMPLEX REMOTE CONTROL ROL-TOE JACK AND POWER PUMP

**RCTJ-25S SINGLE ACTING**

**RCTJ-25D DOUBLE ACTING**

25 ton capacity on toe or cap. 7 in. stroke with safety over travel stop. Weight 105 lbs.

See TJ-25 above for other specifications.

May be powered by RP6A or RP8A hand pumps or by any power pump shown on page 9 & 10.



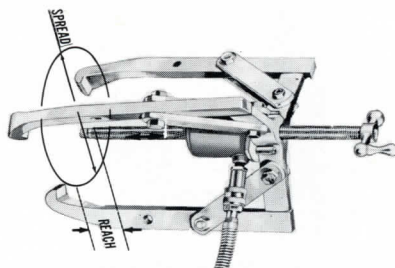


# SIMPLEX

## PULLERS / DOUBLE-GRIP and TRIPLE-GRIP - 20 and 30 TON CAPACITIES

### Double and Triple-Grip Puller Sets

HP2002 and HP2003 (20 ton) and HP3002 and HP3003 (30 ton) units complete except that the Pump is not shown.



| Puller No.           | Double-Grip |        | Triple-Grip |        |
|----------------------|-------------|--------|-------------|--------|
|                      | HP2002      | HP3002 | HP2003      | HP3003 |
| Capacity, Tons       | 20          | 30     | 20          | 30     |
| Hydraulic Travel Ram | 2"          | 2½"    | 2"          | 2½"    |
| Reach                | 12"         | 15"    | 12"         | 15"    |
| Spread Min.          | 0"          | 0"     | 0"          | 0"     |
| Spread Max.          | 16"         | 20"    | 16"         | 20"    |
| Weight, Lbs.         | 44          | 73     | 55          | 94     |

Triple-Grip Puller Arms are Interchangeable with Double-Grip Arms.

#### 20 Ton Units

**HP2002—2-ARM PULLER WITH HYDRAULIC UNIT CONSISTS OF:**  
 HP2002M Puller  
 RP3A Pump  
 RC202A Ram (with threaded saddle)  
 RP3C-8 Hose  
 H-15-13 Crank Handle  
 H-15-12 Adjusting Screw  
 938-12 (2) Attaching Screws

**HP2002M—2-ARM PULLER ONLY—CONSISTS OF 2 ARMS & HUB**

#### 20 Ton Units

**HP2003—3-ARM PULLER WITH HYDRAULIC UNIT CONSISTS OF:**  
 HP2003M Puller  
 RP3A Pump  
 RC202A Ram (with threaded saddle)  
 RP3C-8 Hose  
 H-15-13 Crank Handle  
 H-15-12 Adjusting Screw  
 938-12 (2) Attaching Screws

**HP2003M—3-ARM PULLER ONLY—CONSISTS OF 3 ARMS & HUB**

#### Combination 20 Ton

2-arm and 3-arm units  
 Complete with Ram and Pump  
**HP2005**

#### 30 Ton Units

**HP3002—2-ARM PULLER WITH HYDRAULIC UNIT CONSISTS OF:**  
 HP3002M Puller  
 RP3A Pump  
 RC302.5A Ram (with threaded saddle)  
 RP3C-8 Hose  
 H-15-13 Crank Handle  
 HP3002M-2 Adjusting Screw  
 938-12 (2) Attaching Screws

**HP3002M—2-ARM PULLER ONLY—CONSISTS OF 2 ARMS & HUB**

#### 30 Ton Units

**HP3003—3-ARM PULLER WITH HYDRAULIC UNIT CONSISTS OF:**  
 HP3003M Puller  
 RP3A Pump  
 RC302.5A Ram (with threaded saddle)  
 RP3C-8 Hose  
 H-15-13 Crank Handle  
 HP3003M-2 Adjusting Screw  
 938-12 (2) Attaching Screws

**HP3003M—3-ARM PULLER ONLY—CONSISTS OF 3 ARMS & HUB**

#### Combination 30 Ton

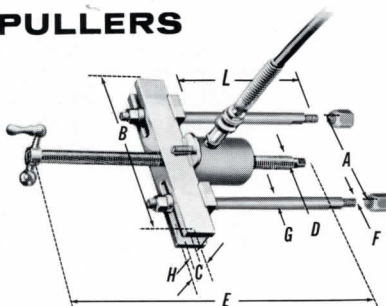
2-arm and 3-arm units  
 Complete with Ram and Pump  
**HP3005**

### HYDRAULIC PUSH-PULLERS

HP4020—20 ton and HP4030—30 ton units complete except that the pump is not shown.

For pulling gears, pulleys, etc., legs are threaded into part being pulled. Hydraulic ram motivates adjusting screw against the center of shaft.

For pushing, legs are threaded into frame. Hydraulic ram actuates adjusting screw against part being installed.



| Puller No. (Complete) | HP4020      | HP4030      |
|-----------------------|-------------|-------------|
| Capacity Tons         | 20          | 30          |
| Hydraulic Ram Travel  | 2"          | 2½"         |
| A Spread Range        | 3½" to 12¾" | 8½" to 16¾" |
| B                     | 13½"        | 18"         |
| C                     | 2"          | 2½"         |
| D                     | 1"-8        | 1¼"-7       |
| E                     | 20¼"        | 24"         |
| F                     | 5/8"-18     | 1"-14       |
| G                     | 3/8"        | 1¼"         |
| H                     | 3/4"        | 1"          |
| Weight                | 56 lb.      | 79 lb.      |

Female threaded leg adaptors and male leg adaptor plugs available at extra charge. For sizes see price schedule.

#### 20 Ton Units

**HP4020—PUSH PULLER WITH HYDRAULIC UNIT CONSISTS OF:**  
 HP4020M Puller  
 RP3A Pump  
 RC202A Ram (with threaded saddle)  
 RP3C-8 Hose  
 H-15-12 Adjusting Screw  
 H-15-13 Crank Handle  
 938-12 (2) Attaching Screws

**HP4020M—PUSH PULLER ONLY—INCLUDES:**

**Hub**  
 2 Legs (16½")  
 2 Leg Ends

#### 30 Ton Units

**HP4030—PUSH PULLER WITH HYDRAULIC UNIT CONSISTS OF:**  
 HP4030M Puller  
 RP3A Pump  
 RC302.5A Ram (with threaded saddle)  
 RP3C-8 Hose  
 HP3002M-2 Adjusting Screw  
 H-15-13 Crank Handle  
 938-12 (2) Attaching Screws

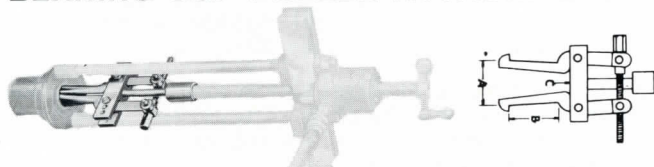
**HP4030M—PUSH PULLER ONLY—INCLUDES:**

**Hub**  
 2 Legs (18")  
 2 Leg Ends

#### AVAILABLE LEG LENGTHS

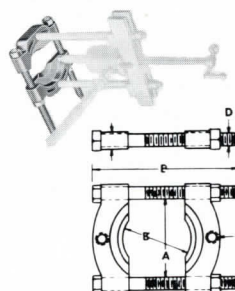
| Leg No.                              | 205E   | 205D   | Incl. With Set 205B | 205C   | 230A   | Incl. With Set 230B | 230C   |
|--------------------------------------|--------|--------|---------------------|--------|--------|---------------------|--------|
| Length L                             | 4½"    | 9½"    | 16½"                | 22½"   | 8"     | 18"                 | 28"    |
| Use With Unit No.                    | HP4020 | HP4020 | HP4020              | HP4020 | HP4030 | HP4030              | HP4030 |
| Weight Per Pair Lbs.                 | 2.5    | 4.25   | 6.5                 | 9      | 8      | 15                  | 22     |
| Adaptor No.—For Extending Leg Lgths. | 924    | 924    | 924                 | 924    | 932B   | 932B                | 932B   |

### BEARING CUP PULLER ATTACHMENT



| Puller No. | A    |      | B  | "C" Tapped Hole | Pulling Capacity | Used With Push Puller No. | Weight Lbs. |
|------------|------|------|----|-----------------|------------------|---------------------------|-------------|
|            | Min. | Max. |    |                 |                  |                           |             |
| 943-E      | 1½"  | 6"   | 4" | 5/8"-18         | 7000 Lbs.        | HP4020                    | 4¾          |

### BEARING PULLER ATTACHMENT



| BEARING PULLER NO.        | 952A (20 Ton) | 953 (30 Ton) |
|---------------------------|---------------|--------------|
| B MIN.                    | 1"            | 1"           |
| MAX.                      | 9"            | 9"           |
| A                         | 9"            | 10"          |
| C                         | 6"            | 11"          |
| D                         | 5/8"-18       | 1"-14        |
| E                         | 3/4"          | 1½"          |
| F                         | 13"           | 17½"         |
|                           | 1¼"           | 1½"          |
| USED WITH PUSH-PULLER NO. | HP4020        | HP4030       |
| WEIGHT LBS.               | 13            | 43           |

**conversion parts** are available to convert your present mechanical puller to a modern hydraulic unit. See price schedule for items available.



# SIMPLEX "RE-MO-TROL" HYDRAULIC JACKS AND PULLERS



No. RC102

No. RC106

No. RC202A

No. RC205

No. RC2112

No. RC302

No. RC302.5A

No. RC306P

**RECOMMENDED FOR:** Heavy-duty gear pulling, sleeve and cylinder liner pulling, pulling ship stern tubes, pipe and culvert pushing, prestressing and post-tensioning concrete, heavy moving, leveling and lifting jobs and general maintenance.

A Simplex Re-Mo-Trol assembled unit consists of a pump and remote controlled hydraulic ram, connected by a high-pressure hose and coupling. Shown here are the rams, pumps are detailed on pages 8, 10 and 11. Complete assembled units with hand pump shown on page 8. For faster operation, substitute either Electric, Gasoline, or Air powered Simplex Hydraulic Pumps detailed on pages 10 and 11.

Operation is extremely simple; yet Re-Mo-Trol fills a thousand different functions — lifting, pulling or pushing, in any direction, easily and in complete safety — from a distance! The operator is 6 feet or more away from the ram. Light, easy pump action (hand, foot, or powered) provides tremendous hydraulic force.

Re-Mo-Trol can be used where cramped space or other difficulties make the use of self-contained jacks or pullers impossible. Portability makes it ideal for shop and field use. All Re-Mo-Trol units are tested and shipped fully assembled.

These modern hydraulic jacking and pulling units replace heavy stationary presses. All ram plungers are hard chrome plated to resist corrosion and scoring.

Shown on this page and the next are the Simplex Hydraulic Rams—solid and hollow center hole—that are a part of the complete hand operated Simplex Re-Mo-Trol Units as shown on the lower half of page 8.

The hydraulic rams (shown here) provide the motivating force which is harnessed through standard and special pumps and attachments to do a host of jobs in any field. For example, a Simplex Re-Mo-Trol unit (ram, pump, hose and attachments) will pull heavy gears, sleeve and cylinder liners, ship stern tubes, push pipes and culverts, pre-stress and post-tension concrete, move and level machinery, lift buildings, press and clamp, plus doing 1001 other tasks in industrial, construction and railroad work.

While hand-powered operation has been discussed so far, power operation of any Simplex Hydraulic Ram is also available. See the Simplex electric, gas and air powered Hydraulic Pumps shown on pages 9 and 10. Power operation speeds ram travel and provides ease of operation for application on production lines, continuous concrete, pre-

stressing, continuous lifting, lowering, pressing, etc. Power pumps are recommended wherever large rams or high lift is required.

Because of unit compactness and self-contained oil reservoir, the Simplex Re-Mo-Trol Unit with either manual or gas engine power, is ideal for work miles from power sources. The same is true with air or electric power if a compressor or a generator is available.

The Simplex Re-Mo-Trol Unit has been widely and quickly recognized as a valuable, versatile, tool on almost every job whether in the shop or in the field. It is a quality tool with outstanding features to assure long life on any job regardless of environment or climate. For example, all ram plungers are hard chrome plated to resist corrosion and scoring.

The Simplex Hydraulic Rams shown above are available in several different types:

**SINGLE ACTING RAMS**—Models RC102, RC2112, RC302 and RC306 (P and C) are one way rams. Plunger must be returned manually. Models RC102S, RC106, RC202A, RC205, RC302.5A, RC506S, RC613 (P and C) and RC1103A are one way rams with spring retraction of the plunger.

**DOUBLE ACTING RAMS**—Models RC315 (P and C), RC6010 (P and C), RC1110A and the four 150-ton models are two way rams with hydraulic retraction of the plunger.

Models RC306P, RC315P, RC613P and RC6010P are also available with external threads at the top of the ram to accommodate pulling bracket shown on page 12 or for mounting in special fixtures. When ordering rams with external threads, designate as RC306C, RC315C, RC613C and RC6010C.

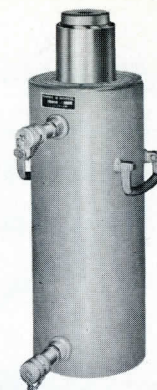
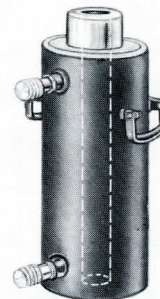
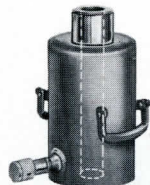
**TELESCOPIC RAMS**—Model RC2112 offers unusual specifications when considerable plunger travel is required in a medium capacity ram. This solid ram has a plunger within a plunger and provides a full 12" rise with a minimum height of only 10 $\frac{7}{8}$ ".

Rams of capacities in excess of 150 tons and specialized pumps are available from The Wm. S. Pine Division of Templeton, Kenly and Co. We will be happy to quote on your requirements.

See "SPECIALS" notation on lower half of next page.



# 23 MODELS / 10 THRU 150 TONS CAPACITY



No. RC315P

No. RC506S

No. RC613P

No. RC6010P

No. RC1103A

No. RC1110A

No. RC15012A

| Model No. | Capacity Tons | Minimum Height | Plunger Travel | Plunger Diameter | Method of Plunger Retraction | Housing Diameter | Effective Ram Area Sq. Inches | Internal Pressure at Capacity P.S.I. | Oil Reservoir Cap. Req. for full lift - cu. in. | Oil Displacement Req. for full lift - cu. in. | Base Thread | Housing Collar Thread dia. & threads per in. | Plunger Thread | Center-Hole Dia. Inches | Weight Lbs. | Recommended Pump |
|-----------|---------------|----------------|----------------|------------------|------------------------------|------------------|-------------------------------|--------------------------------------|---|---|-------------|--|----------------|-------------------------|-------------|------------------|
| RC102     | 10            | 4½"            | 2"             | 1½"              | Manual                       | 2¼"              | 2.07                          | 9950                                 | 4.6   | 4.6   | —           | 2¼-14  | 1¼ Pipe        | —                       | 7           | RP3A             |
| RC102S    | 10            | 5⅞"            | 2"             | 1½"              | Spring                       | 2¼"              | 2.07                          | 9950                                 | 4.6   | 4.6   | —           | 2¼-14  | —              | —                       | 7           | RP3A             |
| RC106     | 10            | 11¾"           | 5½"            | 1½"              | Spring                       | 2¼"              | 2.07                          | 9950                                 | 12  | 12  | 1¼ Pipe     | 2¼-14  | 1¼ Pipe        | —                       | 11          | RP3A             |
| RC202A    | 20            | 6⅜"            | 2"             | 2"               | Spring                       | 3⅝"              | 4.72                          | 8475                                 | 10  | 10  | —           | —  | —              | †                       | 16          | RP3A             |
| RC205     | 20            | 11⅞"           | 5"             | 2¼"              | Spring                       | 3⅝"              | 4.91                          | 8150                                 | 26  | 26  | 2 Pipe      | 3⅝-12  | 2 Pipe         | —                       | 23          | RP3A             |
| RC2112    | 20            | 10⅞"           | 12"            | 2⅞" & 3⅞"        | Manual                       | 4¾"              | 4.91 & 11.04                  | 3620 & 8150                          | 102   | 102   | —           | —  | —              | —                       | 45          | RP6A             |
| RC302     | 30            | 5"             | 2"             | 2⅞"              | Manual                       | 4¾"              | 6.53                          | 9200                                 | 16  | 16  | —           | —  | —              | 1½"                     | 12          | RP3A             |
| RC302.5A  | 30            | 7⅞"            | 2½"            | 2⅜"              | Spring                       | 4⅞"              | 7.21                          | 8315                                 | 18.5  | 18.5  | —           | —  | —              | ‡                       | 20          | RP3A             |
| RC306P    | 30            | 9¾"            | 6"             | 2⅞"              | Manual                       | 4⅞"              | 6.53                          | 9200                                 | 42  | 42  | —           | —  | —              | 1⅞"                     | 32          | RP6A             |
| RC306C    | 30            | 9¾"            | 6"             | 2⅞"              | Manual                       | 4⅞"              | 6.53                          | 9200                                 | 42  | 42  | —           | 3⅞-14  | —              | 1⅞"                     | 32          | RP6A             |
| RC315P    | 30            | 11¼"           | 5"             | 2⅞"              | Hydraulic                    | 4⅞"              | 6.53                          | 9200                                 | 9   | 33  | —           | —  | —              | 1⅞"                     | 38          | RP8A             |
| RC315C    | 30            | 11¼"           | 5"             | 2⅞"              | Hydraulic                    | 4⅞"              | 6.53                          | 9200                                 | 9   | 33  | —           | 3⅞-14  | —              | 1⅞"                     | 38          | RP8A             |
| RC506S    | 50            | 10⅞"           | 5¾"            | 3⅞"              | Spring                       | 4¾"              | 11.04                         | 9050                                 | 61  | 61  | —           | —  | —              | —                       | 45          | RP6A             |
| RC613P    | 60            | 9⅞"            | 3"             | 3⅞"              | Spring                       | 6¼"              | 13.75                         | 8750                                 | 42  | 42  | —           | —  | —              | 1⅞"                     | 62          | RP6A             |
| RC613C    | 60            | 9⅞"            | 3"             | 3⅞"              | Spring                       | 6¼"              | 13.75                         | 8750                                 | 42  | 42  | —           | 5⅞-14  | —              | 1⅞"                     | 62          | RP6A             |
| RC6010P   | 60            | 18½"           | 10"            | 3¼"              | Hydraulic                    | 6¼"              | 13.75                         | 8750                                 | 44  | 138   | —           | —  | —              | 1⅞"                     | 120         | RP8A             |
| RC6010C   | 60            | 18½"           | 10"            | 3¼"              | Hydraulic                    | 6¼"              | 13.75                         | 8750                                 | 44  | 138   | —           | 5⅞-14  | —              | 1⅞"                     | 120         | RP8A             |
| RC1103A   | 100           | 10½"           | 3"             | 4"               | Spring                       | 7½"              | 21.20                         | 9450                                 | 65  | 65  | —           | —  | —              | 2⅞"                     | 96          | RP6A             |
| RC1110A   | 100           | 16½"           | 10"            | 4"               | Hydraulic                    | 7½"              | 21.20                         | 9450                                 | 55  | 212   | —           | —  | —              | 2⅞"                     | 143         | *                |
| RC1503A   | 150           | 11⅞"           | 3"             | 5"               | Hydraulic                    | 7¾"              | 28.27                         | 10,600                               | 59  | 85  | —           | —  | —              | —                       | 143         | *                |
| RC1506A   | 150           | 14⅞"           | 6"             | 5"               | Hydraulic                    | 7¾"              | 28.27                         | 10,600                               | 118   | 170   | —           | —  | —              | —                       | 183         | *                |
| RC15012A  | 150           | 20⅞"           | 12"            | 5"               | Hydraulic                    | 7¾"              | 28.27                         | 10,600                               | 236   | 339   | —           | —  | —              | —                       | 264         | *                |
| RC15024A  | 150           | 32⅞"           | 24"            | 5"               | Hydraulic                    | 7¾"              | 28.27                         | 10,600                               | 472   | 679   | —           | —  | —              | —                       | 425         | *                |

†1"-8 Thread Standard; 1¼" dia. unthreaded optional.

\*Any motorized pump.

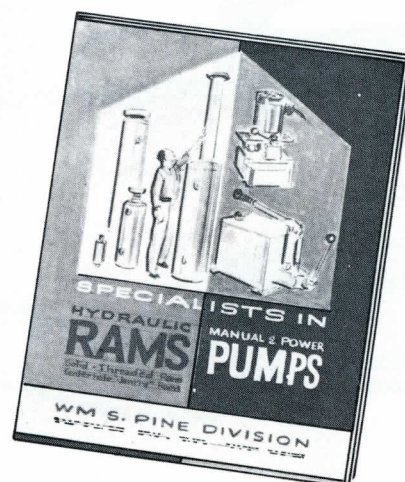
‡1¼"-7 Thread Standard; 1¼" unthreaded optional.

NOTE: All above Rams are shown with ram-half of quick coupling attached for coupling to hose-half of coupler on hose. IF RAM IS DESIRED WITHOUT THE RAM-HALF OF COUPLING, OMIT INITIAL "C" WHEN ORDERING, i.e. R102 10-ton Ram indicates ram only.

## SPECIALS

OUR WM. S. PINE DIVN. HAS PIONEERED THE DESIGN AND MANUFACTURE OF LARGE, HEAVY DUTY, SOLID AND CENTER HOLE RAMS AND SPECIALIZED HAND PUMPS.

SEND US YOUR SPECIFICATIONS OR ASK FOR OUR PINE CATALOG.





# SIMPLEX "RE-MO-TROL" HYDRAULIC HAND PUMP UNITS

## HAND PUMPS - Single Speed - Two Speed - Two Way - Foot Operated



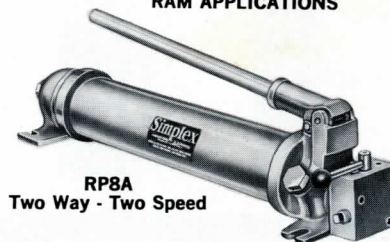
**RP3A**  
One Way



**RP6A**  
One Way - Two Speed



**RP3AFC**  
One Way  
Foot Operated



**RP8A**  
Two Way - Two Speed

Four models of hand pumps are available for use with Simplex Re-Mo-Trol Rams. The RP3A single speed services RC102, RC106, RC202A, RC205, RC302 and RC302.5A Rams. The RP3AFC single speed is foot operated and services the same Rams as RP3A. Operator has both hands free for handling tools etc. The "dead man" release is always closed and is released by pressing with foot.

The RP6A two speed Pump with automatic change-over from high speed to low speed will serve any one way ram recommended where cylinder piston must move rapidly to load contact. RP8A is also a two speed Pump and is designed for use with two way Rams (full pressure can be applied in either direction.) All Pumps are equipped with Pre-Set Overload Safety Valves. All Pumps have extra wide front and rear bases for stability and bolt slots for permanent installations. Hose connections are all 3/8" pipe thread.

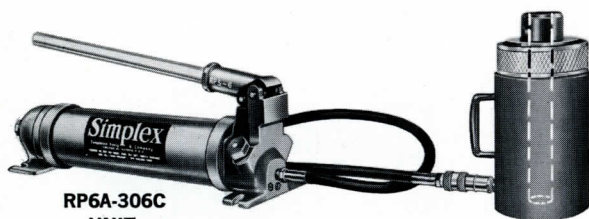
| Model No. | Maximum P.S.I. | Reservoir Cap. Cu. In. | Pump Piston Dia. | PUMP Stroke | Displacement Per Stroke Cu. In. | Hose Conn. | Length Overall | Handle Length | Weight Lbs. |
|-----------|----------------|------------------------|------------------|-------------|---------------------------------|------------|----------------|---------------|-------------|
| RP3A      | 10,000         | 70                     | 7/16             | 1"          | .150                            | 3/8"       | 17 1/2"        | 21 1/2"       | 13          |
| RP3AFC    | 10,000         | 70                     | 1/2              | 1"          | .183                            | 3/8"       | 17 1/2"        | 15"           | 13          |
| RP6A      | 10,000         | 126                    | 1 3/16<br>1/2    | 1"          | .518<br>.196                    | 3/8"       | 21 1/4"        | 21 1/2"       | 28          |
| RP8A      | 10,000         | 126                    | 1 3/16<br>1/2    | 1"          | .518<br>.196                    | 3/8"       | 23 1/4"        | 21 1/2"       | 36          |

## COMPLETE HAND PUMP "RE-MO-TROL" UNITS

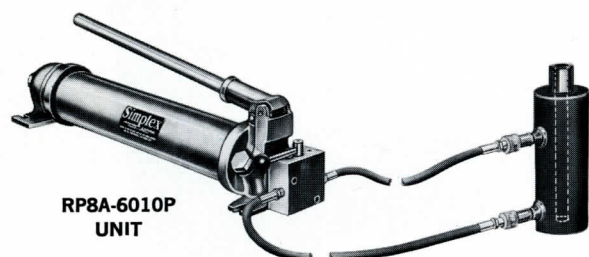
Complete Re-Mo-Trol unit showing hand pump, ram, hose and coupling—assembled.



**RP3AFC-106**  
UNIT



**RP6A-306C**  
UNIT



**RP8A-6010P**  
UNIT

| Complete RE-MO-TROL No. | Rated Capacity Tons | Consists of |           |           | Approx. Time Req. for 1" Lift (minutes) |
|-------------------------|---------------------|-------------|-----------|-----------|---|
|                         |                     | Ram No. †   | Hand Pump | Hose ‡    |   |
| RP3A-102                | 10                  | RC102       | RP3A      | RP3C-8    | .4                                      |
| RP3AFC-102              | 10                  | RC102       | RP3AFC    | RP3C-8    | .4                                      |
| RP3A-106                | 10                  | RC106       | RP3A      | RP3C-8    | .4                                      |
| RP3AFC-106              | 10                  | RC106       | RP3AFC    | RP3C-8    | .4                                      |
| RP3A-202A               | 20                  | RC202A      | RP3A      | RP3C-8    | .8                                      |
| RP3AFC-202A             | 20                  | RC202A      | RP3AFC    | RP3C-8    | .8                                      |
| RP3A-205                | 20                  | RC205       | RP3A      | RP3C-8    | .9                                      |
| RP3AFC-205              | 20                  | RC205       | RP3AFC    | RP3C-8    | .9                                      |
| RP6A-2112               | 20                  | RC2112      | RP6A      | RP3C-8    | .6<br>1.3                               |
| RP3A-302.5A             | 30                  | RC302.5A    | RP3A      | RP3C-8    | 1.2                                     |
| RP3AFC-302.5A           | 30                  | RC302.5A    | RP3AFC    | RP3C-8    | 1.2                                     |
| RP3A-302                | 30                  | RC302       | RP3A      | RP3C-8    | 1.1                                     |
| RP3AFC-302              | 30                  | RC302       | RP3AFC    | RP3C-8    | 1.1                                     |
| RP6A-306P*              | 30                  | RC306P      | RP6A      | RP3C-8    | .8                                      |
| RP8A-315P*              | 30                  | RC315P      | RP8A      | RP3C-8(2) | .8                                      |
| RP6A-506S               | 50                  | RC506S      | RP6A      | RP3C-8    | 1.3                                     |
| RP6A-613P*              | 60                  | RC613P      | RP6A      | RP3C-8    | 1.7                                     |
| RP8A-6010**             | 60                  | RC6010P     | RP8A      | RP3C-8(2) | 1.7                                     |
| RP6A-1103A              | 100                 | RC1103A     | RP6A      | RP3C-8    | 2.6                                     |
| RP8A-1110A**            | 100                 | RC1110A     | RP8A      | RP3C-8(2) | 2.6                                     |

\*Also available in "C" Model

\*\*For faster operation substitute either Electric, Gasoline or Air powered Simplex Hydraulic Pumps detailed on pages 9-10.

†Includes ram half coupling

‡Includes hose half coupling

Any of the above items can be purchased separately



## **SIMPLEX** ELECTRIC HYDRAULIC PUMPS



**1721-M3-SA  
1721-M3-TA**

**Supersedes 1721-M2 Models**

The 1721-M3 Series Electric Hydraulic Pumps are powered by a 1 H.P., 1800 RPM, 115/230 V, 60 cycle, single phase induction motor. Enclosed fan cooled construction equals or exceeds enclosure requirements under all but extreme conditions. Special enclosures available for severe or hazardous locations. Motors available for most power sources throughout the world. Pumping capacity 150 cubic inches of oil up to 100 P.S.I. and automatic changeover to 30 cubic inches up to 10,000 P.S.I. Reservoir capacity 462 cubic inches (16 pints), usable volume 360 cubic inches per minute (12½ pints). Develops 10,000 P.S.I. continuous pressure provided oil temperature does not exceed 140° F. Available with two types of control valves. Motor equipped with toggle switch. Portable pendant switch with 8 ft. cord is available for finger tip remote control of electric motor.

**1721-M3-SA HEAVY DUTY HYDRAULIC POWER PUMP WITH THREE WAY CONTROL VALVE** for controlling spring, manual, or gravity return one-way Rams. Control handle rotates to three positions: advance, hold, and return. When handle is in "hold" position, the ram pressure is held while the pump is still running. Weight 102 lbs.

**1721-M3-TA HEAVY DUTY HYDRAULIC POWER PUMP WITH FOUR WAY CONTROL VALVE** for high pressure advance and low pressure return of Simplex two-way Rams. Load on Ram is held by leaving control lever in advance position and stopping motor. Load is advanced by starting motor. May be stopped and started under full load. Weight 102 lbs.



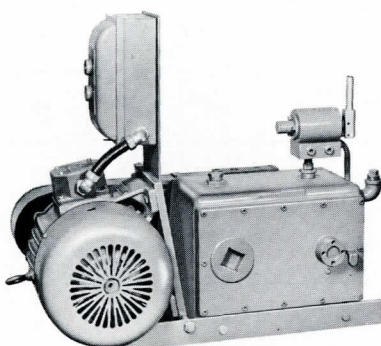
**1722-M3-SA  
1722-M3-TA**

**Supersedes 1722-M2 Models**

The 1722-M3 Series Electric Hydraulic Pumps are powered by a 1½ H.P., 3600 RPM, 115/230 V, 60 cycle, single phase induction motor. Enclosed fan cooled construction equals or exceeds enclosure requirements under all but extreme conditions. Special enclosures available for severe or hazardous locations. Motors available for most power sources throughout the world. Pumping capacity 150 cubic inches of oil up to 100 P.S.I. and automatic changeover to 60 cubic inches per minute up to 10,000 P.S.I. Reservoir capacity 462 cubic inches (16 pints), usable volume 360 cubic inches (12½ pints). Develops 10,000 P.S.I. continuous pressure provided oil temperature does not exceed 140° F. Available with two types of control valves. Motor equipped with toggle switch. Portable pendant switch with 8 ft. cord is available for finger tip remote control of electric motor.

**1722-M3-SA HEAVY DUTY HYDRAULIC POWER PUMP WITH THREE WAY CONTROL VALVE** for controlling spring, manual, or gravity return one-way Rams. Control handle rotates to three positions: advance, hold, and return. When handle is in "hold" position, the ram pressure is held while the pump is still running. Weight 107 lbs.

**1722-M3-TA HEAVY DUTY HYDRAULIC POWER PUMP WITH FOUR WAY CONTROL VALVE** for high pressure advance and low pressure return of Simplex two-way Rams. Load on Ram is held by leaving control lever in advance position and stopping motor. Load is advanced by starting motor. May be stopped and started under full load. Weight 107 lbs.



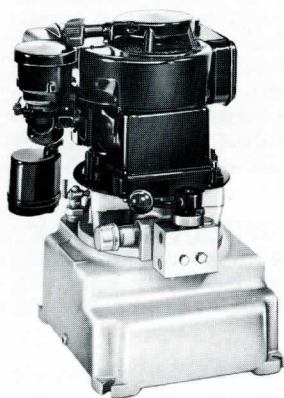
**797-E-3TA**

Powered by a 3 H.P., 220-440 volt, 60 cycle, A.C., 3-phase, constant speed (1800 R.P.M.) (motor factory set for 220 volts. Can be arranged for 440 volts at the motor terminal box.)

Usable working oil capacity 575 cu. in. Pump delivers 264 cu. in. at 1,000 P.S.I. and graduating down to 213 cu. in. at 10,000 P.S.I. Operates at a constant pressure of 6,000 P.S.I. and intermittent pressure of 10,000 P.S.I. Four way spool type valve controls the high pressure advance of the ram and low pressure return. High pressure is held when control handle is in neutral position, weight 580 lbs.



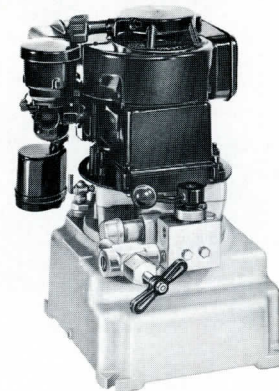
# SIMPLEX GASOLINE AND AIR HYDRAULIC PUMPS



950-SA

The 950 Series Gasoline Hydraulic Pumps are powered by a built-in 3 H.P., 3600 RPM, one cylinder, 4 cycle, air cooled, end mounted gasoline engine with recoil starter. Pumping capacity 150 cubic inches up to 100 P.S.I. with automatic change-over to 45 cubic inches up to 10,000 P.S.I. Reservoir capacity 462 cubic inches (16 pints), usable volume 360 cubic inches (12½ pints).

**950-SA HEAVY DUTY GASOLINE HYDRAULIC POWER PUMP WITH THREE WAY CONTROL VALVE** for controlling spring, manual, or gravity return one-way Rams. Control handle rotates to three positions: advance, hold, and return. When handle is in "hold" position, the ram pressure is held while the pump is still running. Weight 76 lbs.



950-TA10

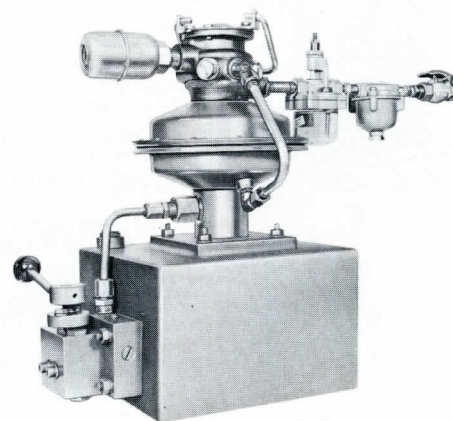
**950-TA10 HEAVY DUTY GASOLINE HYDRAULIC POWER PUMP WITH FOUR WAY CONTROL VALVE** for high pressure advance and low pressure return of Simplex two-way Rams. Equipped with V10C Release Check Valve, load is held while motor is running. For lowering, control handle is moved to return position and V10D valve opened. Weight 78 lbs.

## Air Hydraulic Pump

The AH80A Air Hydraulic Pump is a lightweight, compact, portable, pump, which converts air pressure into hydraulic pressure. It is principally used with single or two-way hydraulic rams. The selector valve changes direction of the oil flow to raise or lower ram plunger on two-way rams.

Load is held on ram simply by shutting off air supply. Has safety bypass valve for overload protection set at 11,000 P.S.I. Unit includes: air filter, lubricator, muffler, air valve and oil strainer.

Oil reservoir capacity — 15 pts. (Usable 340 cubic inches). Weight 60 lbs. including oil. Has bale type carrying handle.



AH80A

### SPECIFICATIONS SIMPLEX HYDRAULIC POWER PUMPS

| Pump Model               | Power Source  | Maximum Output Pressure | Volume Delivered  | Usable Oil Capacity | Dimensions Inches | Weight Lbs. |
|--------------------------|---|-------------------------|---|---------------------|-------------------|-------------|
| AH80A                    | Air   | 10,000 P.S.I.           | 5,000 P.S.I.—65 cu. in. with 100 lbs. air*<br>10,000 P.S.I.—34 cu. in. with 100 lbs. air* | 340 cu. in.         | 9 x 13½ x 16¾     | 60          |
| 1721-M2-SA<br>1721-M2-TA | 1 H.P. 1800 R.P.M.<br>60 cyc. 115-230 V. Mtr.       | 10,000 P.S.I.           | 150 cu. in. to 100 P.S.I.*<br>30 cu. in. to 10,000 P.S.I.*                                | 360 cu. in.         | 11 x 12 x 22½     | 102         |
| 1722-M2-SA<br>1722-M2-TA | 1½ H.P. 3600 R.P.M.<br>60 cyc. 115-230 V. Mtr.      | 10,000 P.S.I.           | 150 cu. in. to 100 P.S.I.*<br>60 cu. in. to 10,000 P.S.I.*                                | 360 cu. in.         | 11 x 12 x 22½     | 107         |
| 950-SA<br>950-TA10       | 3 H.P. 3600 R.P.M.<br>1 cy. 4 cyc. Gas Mtr.         | 10,000 P.S.I.           | 150 cu. in. to 100 P.S.I.*<br>45 cu. in. to 10,000 P.S.I.*                                | 360 cu. in.         | 11 x 14 x 21      | 76<br>78    |
| 797-E-3TA                | 3 H.P. 1800 R.P.M.<br>60 cyc. 3 Ph. 220-440 V. Mtr. | 10,000 P.S.I.           | 264 cu. in. to 1,000 P.S.I.*<br>213 cu. in. to 10,000 P.S.I.*                             | 575 cu. in.         | 18 x 32 x 25¼     | 580         |

\*Delivery cubic inches per minute.



# SIMPLEX

## ACCESSORIES AND EQUIPMENT FOR HYDRAULIC JACKS AND PULLERS

The Simplex accessories and attachments described here make it easy for you to select exactly the items needed to handle the lifting, pulling and pushing jobs you will most often encounter. All attachments and accessories may be purchased separately or in any combination. When special riggings or setup are required, they can be designed and attached by the user, since all threads and fittings for use with attachments are as indicated under the specifications. (Standard automotive body and frame

accessories may be purchased from manufacturers specializing in that field.)

We recommend Simplex Hydraulic Jack Oil be used with all Simplex Hydraulic Units for trouble free operation under all weather conditions. When not available the following oils may be substituted:

|          |               |               |           |
|----------|---------------|---------------|-----------|
| STANDARD | STANOIL #15   | MOBIL         | DTE LIGHT |
| SHELL    | HYDRAULIC #27 | SINCLAIR      | GARNET-AA |
| TEXACO   |               | REGAL OIL "A" |           |

### Gauges

All Simplex Standard Hydraulic Units (except R2112 Rams) can be equipped with direct reading gauges which record total load in tons. When ordering direct reading gauges, specify jack, puller or ram number, as

these gauges are individually calibrated to each model. All gauges have  $\frac{1}{2}$ " male pipe thread fittings, and unbreakable windows. Maximum reading indicator can be furnished for each type gauge at extra cost.

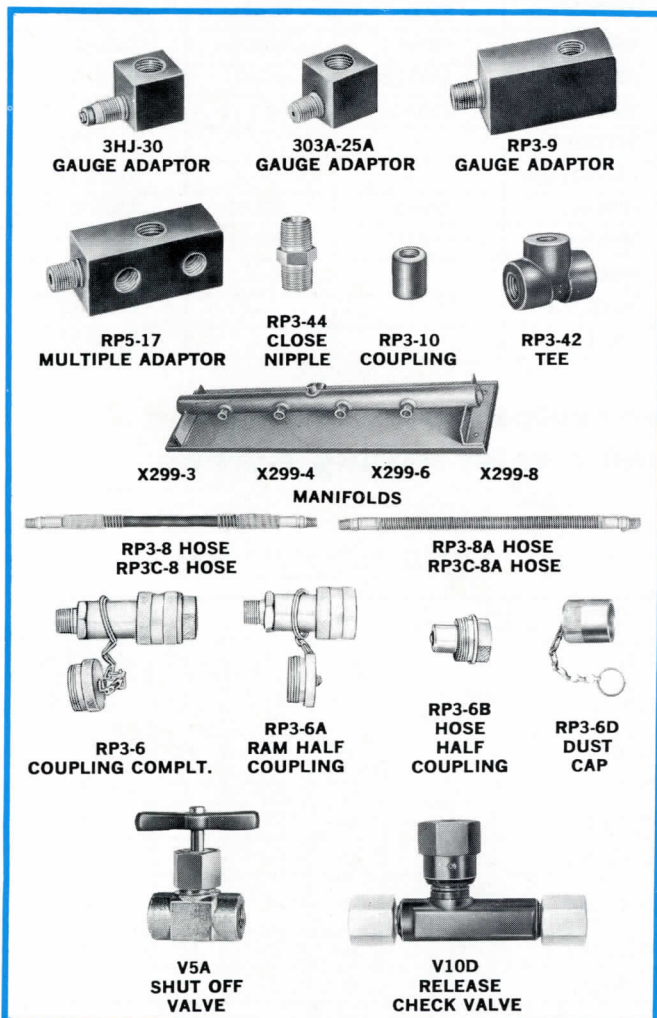


Type 1 gauge.

|        | Calibration             | Size Face         | Accuracy            | Type Fitting & Thread Size    | Used with Jacks or Rams   |
|--------|-------------------------|-------------------|---------------------|-------------------------------|---|
| Type 1 | Direct Reading, in Tons | 3 $\frac{1}{2}$ " | $\pm 2\%$           | Straight $\frac{1}{2}$ " Pipe | All Hydraulic Jacks & Re-Mo-Trol Rams<br>Except R2112 Ram & ROL-TOE Jacks<br>Specify Ram or Jack Used |
| Type 2 | P.S.I.<br>0—15,000      | 3 $\frac{1}{2}$ " | $\pm 2\%$           | Straight $\frac{1}{2}$ " Pipe | TJ10 - TJ25 - TJ50 - R2112<br>All Multiple Ram Units  |
| Type 3 | P.S.I.<br>0—16,000      | 4 $\frac{1}{2}$ " | $\pm \frac{1}{2}\%$ | Straight $\frac{1}{2}$ " Pipe | TJ10 - TJ25 - TJ50 - R2112<br>All Multiple Ram Units  |

### Fittings – Couplings – Valves – High Pressure

All Fittings Are Designed To Withstand 10,000 P.S.I.



**3HJ-30 Gauge Adaptor**—Used with 1.5HJ, 3HJ, 5HJ, 8HJ, 12HJ, 20HJ, 30B, 50B, 100B, J330, J630, 25B22, 25B28, 50B26.

**303A-25A Gauge Adaptor**—Used with J606B, 803C, 1003C, 1503C.

**RP3-9 Gauge Adaptor**—Used with all RE-MO-TROL Rams.

**RP5-17 Multiple Adaptor**—Has four hose openings plus gauge opening. For operation of two or more rams at one time.

**X299-3**—Three Station Manifold with Inlet and Gauge Opening.

**X299-4**—Four Station Manifold with Inlet and Gauge Opening.

**X299-6**—Six Station Manifold with Inlet and Gauge Opening.

**X299-8**—Eight Station Manifold with Inlet and Gauge Opening.

**RP3-44**—Close Nipple— $\frac{3}{8}$ " male pipe threads.

**RP3-10**—Coupling— $\frac{3}{8}$ " female pipe threads.

**RP3-42**—Tee— $\frac{3}{8}$ " female pipe threads.

**RP3-8**—Hose—6 ft. long—with 6" spring guard.  $\frac{3}{8}$ " male pipe fittings.

**RP3C-8** Hose—6 ft. long—with 6" spring guard— $\frac{3}{8}$ " male pipe fittings, including RP3-6B Hose Half Coupling.

**RP3-8A** Hose—6 ft. long—completely spring guarded— $\frac{3}{8}$ " male pipe fittings.

**RP3C-8A** Hose—6 ft. long—completely spring guarded— $\frac{3}{8}$ " male pipe fittings, including RP3-6B Hose Half Coupling.

**RP3-6 Coupling Complete**—Permits rapid connecting and disconnecting of Hose and Ram. Check valve in coupling seals oil when disconnected. Can swivel at low pressures. Cannot be disconnected under pressure. Has  $\frac{3}{8}$ " male and female pipe thread.

**RP3-6A**—Ram Half Coupling—Has  $\frac{3}{8}$ " male pipe thread.

**RP3-6B**—Hose Half Coupling—Has  $\frac{3}{8}$ " female pipe thread.

**RP3-6D**—Dust Cap—Fits over RP3-6B hose half coupling.

**V5A**—Shut Off Valve—Has  $\frac{3}{8}$ " female pipe threads. Can be opened and closed at 10,000 P.S.I.

**V10D**—Release Check—For use with Power Pumps where loads must be instantly held without drop-off with power running. Ball check permits oil to pass in one direction only. When handle is released, ball check is by passed.



# SIMPLEX

## ACCESSORIES AND EQUIPMENT FOR HYDRAULIC PULLERS

### Ram Bases

**R106-13** — A flat base for use with RC106 ram. Used with short connector. Can also be attached to ram plunger for using ram in inverted position.

R106-13



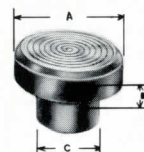
R106-14



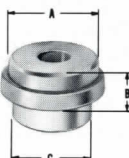
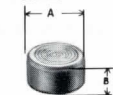
**R106-14** — Short connector screws into bottom of RC106 ram for connecting ram base.

### Ram Caps For solid and center-hole rams

**R106-10**—For use with RC102 and RC106 rams. Protects threads when lifting applications do not involve need for threads.

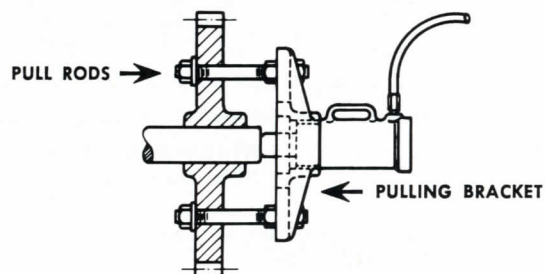


**CENTER HOLE CAPS**—For use with all center hole rams or "Jennies". Plugs into center hole to permit use as conventional lifting rams. Self leveling type, (at right), to minimize eccentric loading, available for models J606B, 803C, 1003C "Jennies" and R1103A Ram.



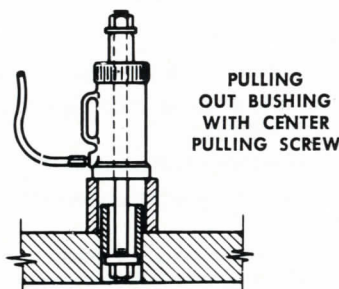
| Part No.                             | Jack or Ram Used On               | A   | B   | C                   |
|--------------------------------------|-----------------------------------|-----|-----|---------------------|
| <b>R106-10</b>                       | R102 — R106                       | 2"  | 1"  | 1¼" Std. Pipe Thrd. |
| <b>303A-44</b>                       | R302 — R306<br>R315 — J330 — J630 | 1⅞" | ¾"  | 1½"                 |
| <b>R613-44</b>                       | R613                              | 3¼" | 1"  | 1⅝"                 |
| <b>803C-44</b><br>Self Leveling Cap  | 803C                              | 3½" | 1¼" | 3¾"                 |
| <b>1003C-44</b><br>Self Leveling Cap | J606B — 1003C — R1103A            | 3"  | 1¼" | 2¾"                 |
| <b>R1110A-44</b>                     | R1110A                            | 3½" | 1"  | 2⅞"                 |
| <b>R6010-44</b>                      | R6010                             | 3"  | 1"  | 1¾"                 |
| <b>10010A-44</b>                     | 10010A                            | 4½" | 1¾" | 2⅞"                 |

### Pulling Bracket, Pull Rods and Center Pulling Screws

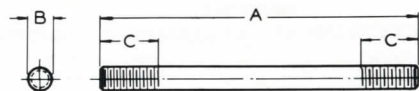


A ram equipped with pulling bracket and pull rods provides a simple, easy way to pull gears, wheels, propellers, etc. The pulling bracket, which threads directly to the upper portion of the ram housing, has elongated slots for radial adjustment of the pull rods. The pull rods, supported at the bracket and behind the object being pulled, provide direct line pull eliminating torque action. There are two rods, six nuts and four washers to each pull rod set. See chart for dimensions.

| Jack or Ram        | Pulling Bracket Used | Pull Rod Set Used | Center Pulling Screw Used |
|--------------------|----------------------|-------------------|---------------------------|
| <b>RC102 Ram</b>   | R106-12              | R106-11           | —                         |
| <b>RC106 Ram</b>   | R106-12              | R106-11           | —                         |
| <b>RC302 Ram</b>   | —                    | —                 | R306-10                   |
| <b>RC306C Ram</b>  | R306-12              | R306-11           | R306-10                   |
| <b>RC315C Ram</b>  | R306-12              | R306-11           | R306-10                   |
| <b>RC613C Ram</b>  | R603-12              | R603-11           | R613-10                   |
| <b>RC6010C Ram</b> | R603-12              | R603-11           | R6010-15                  |
| <b>RC1103A Ram</b> | —                    | —                 | R1103-15                  |
| <b>RC1110A Ram</b> | —                    | —                 | R1110-15                  |
| <b>J330 Jack</b>   | J330-61              | J330-62           | R306-10                   |
| <b>J630 Jack</b>   | J330-61              | J330-62           | R306-10                   |
| <b>803C Jack</b>   | —                    | —                 | R1003-10                  |
| <b>J606B Jack</b>  | —                    | —                 | R1103-15                  |
| <b>1003C Jack</b>  | —                    | —                 | R1103-15                  |



### Specifications of Pull-Rods and Center Pulling Screws



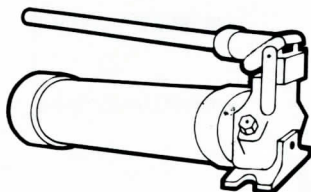
| Part No.        | Jack, Ram or Pulling Bracket Used On | A   | B   | C   | Threads Per Inch |
|-----------------|--------------------------------------|-----|-----|-----|------------------|
| <b>R106-11</b>  | R106-12                              | 18" | ¾"  | 6"  | ¾-10 U.S.S.      |
| <b>R306-10</b>  | R302-R306<br>R315-J330-J630          | 24" | 1"  | 8"  | 6 ACME           |
| <b>R306-11</b>  | R306-12                              | 24" | 1¼" | 8"  | 1¼-12 S.A.E.     |
| <b>R603-11</b>  | R603-12                              | 24" | 1½" | 8"  | 1½-12 S.A.E.     |
| <b>R613-10</b>  | R613                                 | 24" | 1½" | 8"  | 4 ACME           |
| <b>R1003-10</b> | 803C                                 | 24" | 2½" | 8"  | 3 ACME           |
| <b>R1103-15</b> | J606B<br>1003C-R1103A                | 24" | 2"  | 8"  | 4 ACME           |
| <b>R1110-15</b> | R1110A                               | 36" | 2"  | 12" | 4 ACME           |
| <b>R6010-15</b> | R6010                                | 36" | 1½" | 12" | 4 ACME           |

Screw is inserted through the "Center-Hole" and secured at the ram plunger head. As ram plunger is extended the screw is drawn through the ram or Jack, producing smooth, torque-free pull. When tapped holes are provided the Center Pulling Screw can be directly inserted into axles, shafts, etc. in pulling or pushing gears or wheels. Two nuts are furnished with each pulling Screw. See chart for dimensions.

NOTE: Pull Rod and Center Screw individual components shown in price schedule. ("A" Designates Screw) ("B" Designates Nut)



## BASIC (ONE-WAY) SIMPLEX Re-Mo-Trol SYSTEM CONSISTS OF . . .



**PUMP\*** — Simplex Piston Action Hydraulic Hand Pump creates up to 10,000 psi with reasonable lever handle effort. Forces oil from its reservoir into a closed system checking its return. Also powered models—electric, air or gasoline.



**HOSE** — High Pressure Hose connected by couplings to pump and ram transmits oil under pressure from pump to ram. Flexible but withstands internal pressure safely. Standard 6' lengths can be connected with RP3-10 Coupling. Special lengths on request.



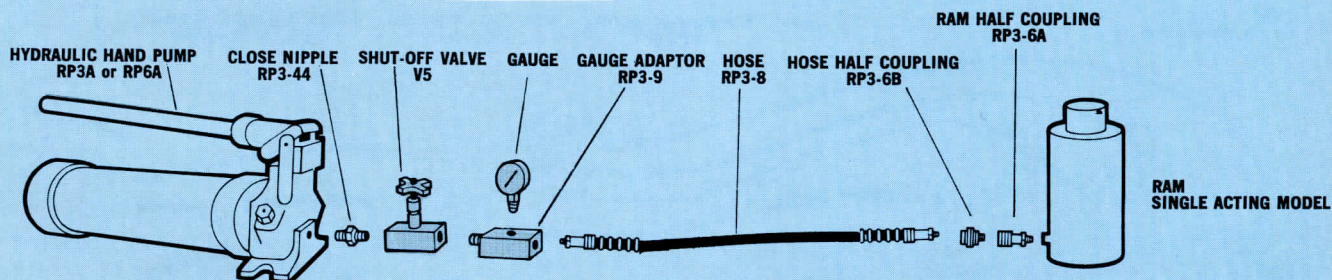
**RAM\*\*** — Hydraulic Ram Plunger extends upward as oil is forced beneath it. Ram can be used in any position and retracts when pump control valve is opened. Minimum ram height available and travel desired should be determined before ram selection is made.

**\*PUMP RESERVOIR CAPACITY.** Chart on page 7 shows "Oil Reservoir Capacity for full lift (cubic inch) of each ram". When several rams are used, multiply this figure by the number of rams, add additional oil for hose lines, etc. If this figure is greater than the reservoir capacity of the pump chosen, an additional reservoir is needed. These can be furnished on all pump models (prices on request).

**\*\*RAM SELECTION—TONNAGE.** Each ram is designed to operate in a certain range, i.e. 10-ton (0-10) with an assured factor of safety at its maximum rated capacity. Each pump is designed to by-pass after maximum capacity of the ram is reached. This additional safety factor is your protection against over-loading. When selecting a ram for a particular application, select one whose range provides the maximum utility. See table on Page 7 for description of ram types available — Center Hole, Solid Ram, and Retraction (spring, manual, hydraulic).

## BASIC (ONE-WAY) SIMPLEX SYSTEM with Shut-Off Valve and Gauge

**ADD V5A SHUT-OFF VALVE** for positive holding of load. Fits between pump and hose as shown below. Needs RP3-44 close nipple for pump connection.



**ADD GAUGE FOR DIRECT OR PSI READING.** Note how gauge fits in hook-up. Use RP3-9 gauge adaptor. See copy right for further data on gauges.



**TWO TYPES OF GAUGES ARE AVAILABLE:** **DIRECT READING** — available for all cataloged rams — read in tons and are individually calibrated. Cannot be interchanged with other rams and cannot be used on multi-ram hookups.

**P.S.I.** — show internal pressure, are available in two models: R2012-25 and R6010-25. The R6010-25 is more accurate—to  $\pm 1\%$ . To convert internal pressure to tons, multiply gauge reading by effective ram area; result is load in pounds. **EXAMPLE:**

$(\text{P.S.I.}) \times (\text{Ram Area}) = \text{Pounds}$

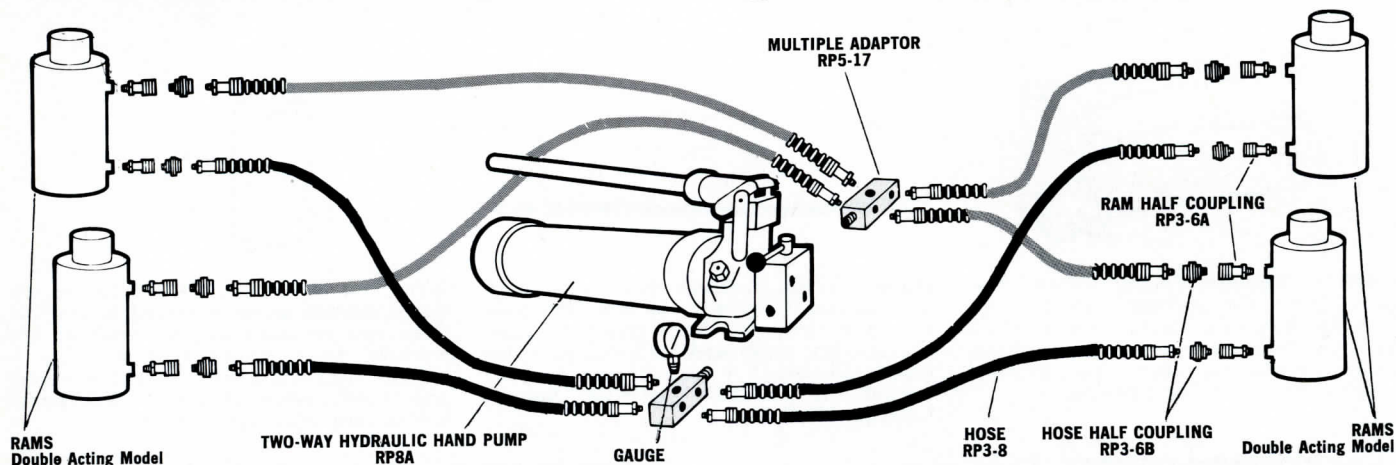
$(8,000) \times (6.6 \text{ Ram Area}) = 52,800 \text{ lbs. or } 26 \text{ tons}$



## TYPICAL Re-Mo-Trol SYSTEMS

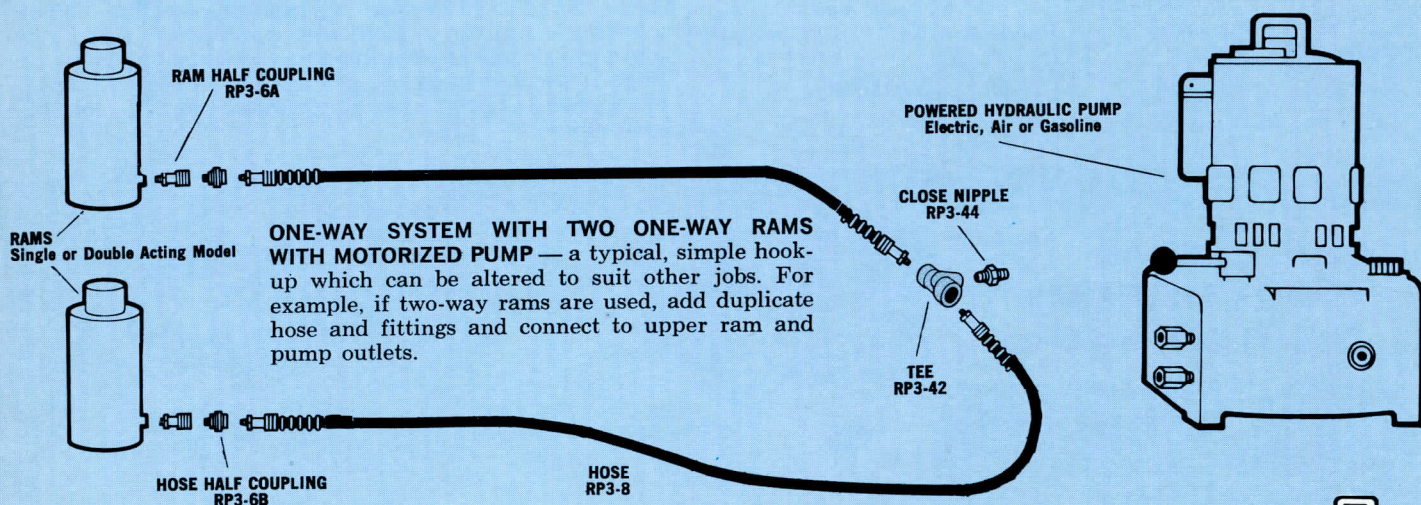
NOTE COMPONENTS USED

BUILD SYSTEM TO SUIT JOB

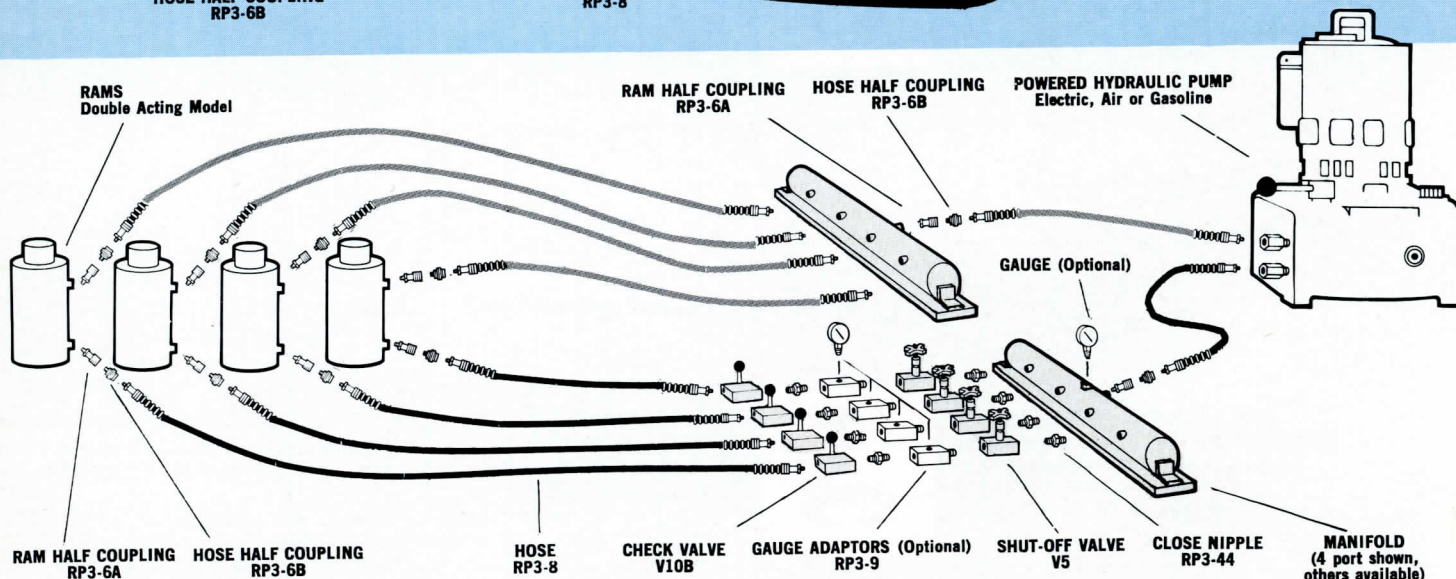


**TWO-WAY SYSTEM WITH MANY RAMS WITH ONE HAND PUMP** — here is a typical system using one two-way hand pump with four two-way rams including a gauge. Note the

components and hook-up. Valves, manifolds and other accessories can be used for other specific applications.



**ONE-WAY SYSTEM WITH TWO ONE-WAY RAMS WITH MOTORIZED PUMP** — a typical, simple hook-up which can be altered to suit other jobs. For example, if two-way rams are used, add duplicate hose and fittings and connect to upper ram and pump outlets.



**TWO-WAY SYSTEM WITH FOUR TWO-WAY RAMS WITH ONE MOTORIZED PUMP** — this set-up illustrates the flexibility of Re-Mo-Trol systems to meet abnormal job requirements.

V5A and V10B provide individual ram control. Special equipment for equal lift is available.



### SIMPLEX Service Jacks / Hydraulic / 6 Models, 1¼, 1½, 2, 4, 10 and 20 Ton Capacities

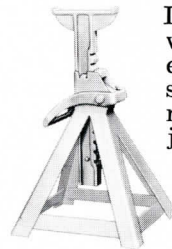


#### SIMPLEX Hydraulic Service Jacks

SJ700 1¼ ton, SJ710 1½ ton, SJ720 2 ton and SJ731 4 ton are universally used for service stations, road service and in shops. SJ740 10 ton and SJ750 20 ton heavy duty models are adapted for easy lifting of crawler type tractors, power shovels, cranes and large dump trucks. Replacement hydraulic power mechanisms available for all models.

| Specifications            | Jack No. SJ700 | Jack No. SJ710 | Jack No. SJ720 | Jack No. SJ731 | Jack No. SJ740 | Jack No. SJ750 |
|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Capacity, Tons            | 1¼             | 1½             | 2              | 4              | 10             | 20             |
| Length of Chassis, ins.   | 25½            | 28½            | 31             | 47½            | 66             | 68½            |
| Length of Handle, ins.    | 47½            | 47½            | 54             | 46             | 40             | 40             |
| Length Overall, ins.      | 68¼            | 70½            | 80             | 91½            | 104            | 108            |
| Saddle Low Point, ins.    | 4¾             | 4              | 4              | 4¼             | 5⅞             | 6½             |
| Saddle High Point, ins.   | 17½            | 20             | 24             | 25             | 24             | 25½            |
| High Point of Frame, ins. | 5¾             | 5⅞             | 5⅞             | 6¾             | 8⅞             | 10¼            |
| Diameter of Saddle, ins.  | 5½             | 6½             | 6½             | 6½             | 9              | 9¼             |
| Dia. Front Wheels, ins.   | 4              | 4              | 4              | 4              | 7⅞             | 7⅞             |
| Dia. Caster Wheels, ins.  | 2¼             | 2⅝             | 2⅝             | 2¾             | 4              | 4              |
| Weight, Lbs.              | 70             | 97             | 116            | 200            | 348            | 530            |

#### SIMPLEX Adjustable Stands



Designed for 50% overload. Steel frame with malleable pawl and rack bar. Self-engaging pawl locks rack bar to prevent slippage. Convenient handle and safety rack bar stop. Their use keeps your service jacks available for other jobs.

|                  | STAND No. ST 2 | STAND No. ST 5 | STAND No. ST 7 |
|------------------|----------------|----------------|----------------|
| Capacity Tons    | 2              | 5              | 7              |
| Min. Height      | 11"            | 15"            | 20"            |
| Max. Height      | 17¾"           | 25"            | 29½"           |
| Base Size        | 8" x 9"        | 10" x 12"      | 13¼" x 15½"    |
| Weight Lbs. Pair | 22             | 30             | 41             |

### SIMPLEX Bumper Jacks and Car Props Hydraulic and Screw Types



#### SIMPLEX Adjustable Hydraulic Bumper Jack

BJ501 weighs only 19 lbs. Knuckle joint chain hook moves with normal arc as car is lifted. Low 22¼" Hydraulic lift 18¾". Hook adjusts from 4½" to 15¼". 1½ ton capacity.



Serve every need for automotive shops, driveway and road service. Provide trouble-free operation in servicing front end assemblies or body work. Controls are at top for convenience. BJ510, actuated by recirculating ball nut and screw. BJ530 actuated by 3-ton Hydraulic Unit. All have positive safety stop to hold load. CP530 Car Prop (not shown) can be readily attached.

#### SIMPLEX BUMPER JACKS — 1½ TON CAPACITY

| SPECIFICATION            | BJ501 | BJ510 | BJ530   |
|--------------------------|-------|-------|---------|
| Low Saddle Height        |       |       |         |
| Lower Saddle             | ...   | 3"    | 10"     |
| Upper Saddle             | ...   | 8½"   |         |
| Extended Saddle Height   |       |       |         |
| Lower Saddle             | ...   | 26½"  | 33"     |
| Upper Saddle             | ...   | 32½"  |         |
| Size Lifting Surface     | ...   | ...   | 6" x 4" |
| Saddle Adjustment Width  |       |       |         |
| Closed                   | ...   | ...   | 18"     |
| Open                     | ...   | ...   | 49½"    |
| Clearance Saddle to Unit | ...   | ...   | 14"     |
| Overall Height           | 41"   | 35"   | 37½"    |
| Overall Width            | ...   | 10"   | 26"     |
| Shipping Weight          | 19    | 21    | 169     |





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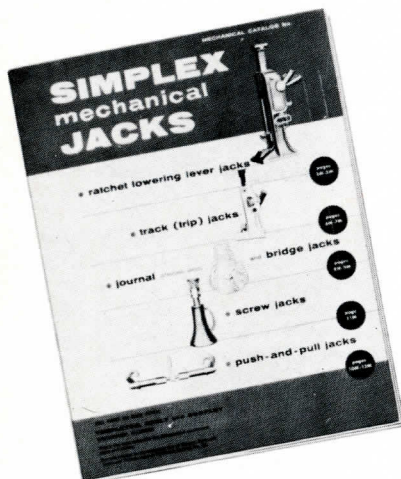
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